

- c) an air inlet passage, said air inlet passage being disposed in heat exchange relationship with the processed fuel gas stream whereby heat from the processed fuel gas stream will be transferred to said air inlet passage; and
- d) a fuel gas reforming catalyst deposited in said foam catalyst bed.
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21.(amended) A hydrocarbon fuel gas autothermal reformer assembly comprising:

- C 3 a) a monolithic open cell foam catalyst bed, said catalyst bed including an inlet end and an outlet end, an inlet portion of said catalyst bed being provided with a noble metal-promoted catalyst which is operable to combust a portion of the fuel gas at a temperature of about 500°F thereby enabling start up of the reformer assembly while inhibiting carbon deposition in catalyzed cells of said foam;
- b) a fuel gas inlet passage, said fuel gas inlet passage being disposed in heat exchange relationship with [an] a processed fuel gas stream disposed in an outlet passage from said catalyst bed whereby heat will be transferred to said fuel gas inlet passage from the processed fuel gas stream;
- c) an air inlet passage, said air inlet passage being disposed in heat exchange relationship with processed fuel gas stream whereby heat from the processed fuel gas stream will be transferred to said air inlet passage; and
- d) a fuel gas reforming catalyst deposited in said foam catalyst bed.
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In Claim 22, last line, please ~~delete~~ "core" and ~~insert~~ --catalyst bed--.

REMARKS

Claims 1-7, 9-19, 21 and 22 have been submitted for examination. The specification has been objected to due to repeated use of the phrase "catalyzed cells" in the specification. The specification has been amended to clarify the meaning of this phrase for the Examiner. Claims 1 and 21 have been objected to due to the inclusion of a typographical error wherein the word "an" was used instead of the correct word "a". This mistake has been corrected. Claims 1 and 21 have been amended to provide clear antecedence for the phrase "processed fuel gas stream". Claim 22 has been amended to delete the word "core" which did not have a proper antecedence basis and to substitute the phrase "catalyst bed" therefore, which phrase does have